

Product datasheet for TA333273

OriGene Technologies, Inc.

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AMPK alpha 1 (PRKAA1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: IHC 1:50-1:100

Reactivity: Human, Mouse, Rat

Modifications: Phospho-specific

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: A phospho specific peptide corresponding to residues surrounding T174/T172 of human

PRKAA1

Formulation: Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with

0.02% sodium azide, 50% glycerol, pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 559

Gene Name: protein kinase AMP-activated catalytic subunit alpha 1

Database Link: NP 996790

Entrez Gene 65248 RatEntrez Gene 105787 MouseEntrez Gene 5562 Human

Q13131





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Background: The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the

catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced

transcript variants encoding distinct isoforms have been observed.

Synonyms: AMPK; AMPKa1

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling

pathway, mTOR signaling pathway, Regulation of autophagy